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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech II Year I Semester Regular Examinations May-2022

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common to CSE, CIC & CSIT)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a What is Byte Code? Analyze the different states of Java Program execution. L4 6M
b Explain History and Evolution of Java. L2 6M

OR

- 2 a What is mean by OOP? Illustrate the Concepts of OOP. L3 6M
b Show what is varargs in java? Write the syntax and develop a Program showing the varargs usage. L6 6M

UNIT-II

- 3 a Give the definition and syntax of Class, Method and Object. L1 6M
b Create a java program to display "Hello! Java" using Class, Object and Method. L6 6M

OR

- 4 a Describe about the super keyword in java with example. L2 6M
b Give the differences between Abstract class and Interface. L4 6M

UNIT-III

- 5 a Summarize what are Java Exception and its Types. L2 6M
b Illustrate about try, catch, and throw statements using a java program. L3 6M

OR

- 6 a State what is Multithreading? Illustrate the ways to create multiple threads in java. L2 6M
b Sketch and explain Thread Life Cycle. L3 6M

UNIT-IV

- 7 a Discuss in detail on collection interfaces and their methods L2 6M
b Apply the following interfaces with java programs L3 6M
i) The Collection Interface ii) The Set iii) The Map. Entry

OR

- 8 a Define Generics. State the importance of generics in java. L1 6M
b Demonstrate the implementation of Generics in java with an example program. L2 6M

UNIT-V

- 9 a State the importance of Lambda Expression with syntax. L1 6M
b Develop a java program to pass multiple parameters with Lambda Expression. L6 6M

OR

- 10 a Illustrate with an example to explain the similarities for method reference operator and Lambda Expression L3 6M
b Describe Reference to an instance method of an arbitrary object of a particular type. L2 6M

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